

ABSTRACT OF THE DISCLOSURE

An optical projection system has a parallel light source for producing a parallel light beam. A first color splitter splits the parallel light beam into a first color beam and a color mixing beam. The color mixing beam includes a second color beam and a third color beam. A first both-side telecentric group is disposed on a first light path of the first color beam, so as to transform into a first light beam. A second both-side telecentric group is disposed on a second light path of the color mixing beam. A second color splitter is disposed on the second light path to split the color mixing beam into a second light beam and a third light beam. A light-combining unit receives the first, second, and third light beams and combines into a mixed beam. Then the mixed beam is projected.